

What is claimed is:

1 1. A liquid crystal display, comprising:
2 a supporting base having a first section, a second
3 section, a third section, a first pivot
4 positioned between the first section and the
5 second section, and a second pivot positioned
6 between the second section and the third
7 section;
8 a display unit connected to the third section of the
9 supporting base, exerting a first torque on the
10 first pivot by a weight of the display unit;
11 and
12 a pre-force mechanism connected to the first pivot,
13 exerting a second torque on the first pivot,
14 and the second torque and the first torque
15 being in opposite directions.

1 2. The liquid crystal display as claimed in claim
2 1, wherein the second section of the supporting base is
3 hollow, and the pre-force mechanism is disposed in the
4 second section.

1 3. The liquid crystal display as claimed in claim
2 2, wherein the first pivot comprises a fixed element
3 connected to the first section of the supporting base,
4 and a movable element connected to the second section of
5 the supporting base.

1 4. The liquid crystal display as claimed in claim
2 3, wherein the pre-force mechanism comprises a rod

3 coupled to the fixed element of the first pivot, a
4 stopper disposed in the second section of the supporting
5 base, and a spring disposed on the rod and pressed
6 against the stopper.

1 5. The liquid crystal display as claimed in claim
2 4, wherein the rod comprises a first end coupled to the
3 fixed element of the first pivot, a second end, and a
4 middle portion located between the first end and the
5 second end.

1 6. The liquid crystal display as claimed in claim
2 5, wherein the fixed element of the first pivot comprises
3 an opening, and the first end of the rod is hooked at the
4 opening such that the rod is coupled to the fixed
5 element.

1 7. The liquid crystal display as claimed in claim
2 5, wherein the second end of the rod is thinner than the
3 middle portion of the rod so that the spring is
4 positioned between the stopper and the second end of the
5 rod.

1 8. The liquid crystal display as claimed in claim
2 5, wherein the spring is integrally formed on the second
3 end of the rod.

1 9. The liquid crystal display as claimed in claim
2 5 further comprising a wear linear disposed between the
3 second end of the rod and the second section of the
4 supporting base.

1 10. The liquid crystal display as claimed in claim
2 9, wherein the wear linear is fixed on the second end of
3 the rod.

1 11. The liquid crystal display as claimed in claim
2 9, wherein the wear liner is fixed on an inner wall of
3 the second section of the supporting base.

1 12. A liquid crystal display, comprising:
2 a supporting base having at least two sections and
3 at least one pivot connecting the two sections;
4 a display unit lifted by the supporting base,
5 exerting a first torque on the first pivot by a
6 weight of the display unit; and
7 a pre-force mechanism connected to the pivot,
8 exerting a second torque on the pivot, and the
9 second torque and the first torque being in
10 opposite directions.

1 13. The liquid crystal display as claimed in claim
2 12, wherein one of the two sections of the supporting base
3 is hollow, with the pre-force mechanism disposed therein.

1 14. An supporting base for supporting a device,
2 comprising:
3 a first section;
4 a second section;
5 a first pivot coupled to the first section and the
6 second section;
7 a third section connected to the device;

8 a second pivot coupled to the third section and the
9 second section; and
10 a pre-force mechanism connected to the first pivot;
11 wherein the device exerts a first torque on the
12 first pivot by a weight of the device, and the
13 pre-force mechanism exerts a second torque
14 opposite to the first torque on the first
15 pivot.

1 15. The supporting base as claimed in claim 14,
2 wherein the second section is hollow, and the pre-force
3 mechanism is disposed in the second section.

1 16. The supporting base as claimed in claim 15,
2 wherein the first pivot comprises a fixed element
3 connected to the first section and a movable element
4 connected to the second section.

1 17. The supporting base as claimed in claim 16,
2 wherein the pre-force mechanism comprises a rod coupled
3 to the fixed element of the first pivot, a stopper
4 disposed in the second section, and a spring disposed on
5 the rod and pressed against the stopper.

1 18. The supporting base as claimed in claim 17,
2 wherein the rod comprises a first end coupled to the
3 fixed element of the first pivot, a second end, and a
4 middle portion located between the first end and the
5 second end.

1 19 The supporting base as claimed in claim 18,
2 wherein the fixed element of the first pivot comprises an

3 opening, and the first end of the rod is hooked at the
4 opening of the fixed element of the first pivot such that
5 the rod is coupled to the fixed element.

1 20. The supporting base as claimed in claim 18,
2 wherein the second end of the rod is thinner than the
3 middle portion of the rod so that the spring is
4 positioned between the stopper and the second end of the
5 rod.

1 21. The supporting base as claimed in claim 18,
2 wherein the spring is integrally formed on the second end
3 of the rod.

1 22. The supporting base as claimed in claim 18
2 further comprising a wear liner disposed between the
3 second end of the rod and the second section.

1 23. The supporting base as claimed in claim 22,
2 wherein the wear liner is fixed on the second end of the
3 rod.

5 24. The supporting base as claimed in claim 22,
wherein the wear liner is fixed on an inner wall of the
second section.